

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU	BATCH #	LOQ: Limit Of Quantitation	
PRODUCT NAME	SERVING SIZE	LOD: Limit Of Detection	
LABORATORY :	OREGON ACCREDITATION: OR100028	1 g = 10 ⁻³ kg = 10 ³ mg = 10 ⁶ µg 1 mg/kg = 1 ppm = 1000 ppb	
POTENCY	PER SERVING	PER GRAM	Percent
Cannabidiol (CBD)	mg/serving	mg/g	%
Total THC (d9-THC, THCA)	mg/serving	mg/g	%
Cannabigerol (CBG)	mg/serving	mg/g	%
Cannabinol (CBN)	mg/serving	mg/g	%
Cannabichromene (CBC)	mg/serving	mg/g	%
Tetrahydrocannabinolic Acid (THCA)	mg/serving	mg/g	%
Delta-9-THC (d9-THC)	mg/serving	mg/g	%
Delta-8-THC (d8-THC)	mg/serving	mg/g	%
HEAVY METALS	PER SERVING	PER GRAM	REGULATORY ACTION LEVEL
Arsenic	µg/serving	µg/g	1.5 ppm
Cadmium	µg/serving	µg/g	0.5 ppm
Lead	µg/serving	µg/g	0.5 ppm
Mercury	µg/serving	µg/g	3.0 ppm
PESTICIDES	REGULATORY ACTION LEVEL		
None of the other 59 pesticides tested found above limit of detection in the sample.	10 ppb ^[1]		
RESIDUAL SOLVENTS	Results	REGULATORY ACTION LEVEL	
Ethanol*	µg/g	5,000 ppm	
Heptane	µg/g	5,000 ppm	
None of the 34 residual solvents tested found above limit of quantitation in the sample.			
MICROBIAL	PASS/FAIL		
Yeast & Mold	Pass		
Coliform	Pass		



1. American Herbal Pharmacopoeia. (2014). Cannabis Inflorescence: Standards of Identity, Analysis, and Quality Control. Washington DC: AHP.

*Ethanol is a food additive used in some of our ingredients. The FDA has labeled ethanol as Generally Recognized as Safe (GRAS). Many foods contain trace amounts of ethanol, including soy sauce, pasta sauces, fruits and juices, etc. Our products contain safe levels of ethanol and always below pertinent regulatory action levels.



12423 NE Whitaker Way
 Portland, OR 97230
 503-254-1794



Report Number: 23-013600/D002.R000
Report Date: 11/27/2023
ORELAP#: OR100028
Purchase Order: 2728869
Received: 11/16/23 16:10

Customer: Etz Hayim Holdings
Product identity: CYCL-SLZ.D9.BC5.6PK-FH20(A)X
Client/Metric ID: .
Laboratory ID: 23-013600-0009

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status	
CBD per 1g	0.0252		mg/1g		CBD-Total per Serving Size 0.0252 mg/1g
Δ9-THC per 1g	0.0150		mg/1g		THC-Total per Serving Size 0.0150 mg/1g
					(Reported in milligrams per serving)

Residual Solvents:

Analyte	Result (µg/g)	Limits (µg/g)	Status
Ethanol	392		

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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ORELAP#: OR100028
Purchase Order: 2728869
Received: 11/16/23 16:10

Customer: Etz Hayim Holdings
 16427 NE Airport Way
 PORTLAND 97230
 United States of America (USA)

Product identity: CYCL-SLZ.D9.BC5.6PK-FH20(A)X

Client/Metric ID: .

Sample Date:

Laboratory ID: 23-013600-0009

Evidence of Cooling: No

Temp: 17.1 °C

Relinquished by: Client

Serving Size #1: 1 g

Sample Results

Potency per 1g		Method: J AOAC 2015 V98-6 (mod) ^b		Units mg/se Batch: 2313009		Analyze: 11/20/23 10:14:00 P
Analyte	Result	Limits	Units	LOQ	Notes	
CBC per 1g	< LOQ		mg/1g	0.000995		
CBC-A per 1g	< LOQ		mg/1g	0.000995		
CBC-Total per 1g	< LOQ		mg/1g	0.00187		
CBD per 1g	0.0252		mg/1g	0.000995		
CBD-A per 1g	< LOQ		mg/1g	0.000995		
CBD-Total per 1g	0.0252		mg/1g	0.00187		
CBDV per 1g	< LOQ		mg/1g	0.000995		
CBDV-A per 1g	< LOQ		mg/1g	0.000995		
CBDV-Total per 1g	< LOQ		mg/1g	0.00186		
CBE per 1g	< LOQ		mg/1g	0.000995		
CBG per 1g	< LOQ		mg/1g	0.000995		
CBG-A per 1g	< LOQ		mg/1g	0.000995		
CBG-Total per 1g	< LOQ		mg/1g	0.00186		
CBL per 1g	< LOQ		mg/1g	0.000995		
CBL-A per 1g	< LOQ		mg/1g	0.000995		
CBL-Total per 1g	< LOQ		mg/1g	0.00187		
CBN per 1g	< LOQ		mg/1g	0.000995		
CBT per 1g	< LOQ		mg/1g	0.000995		
Δ8-THCV per 1g	< LOQ		mg/1g	0.000995		
Δ10-THC-9R per 1g	< LOQ		mg/1g	0.000995		
Δ10-THC-9S per 1g	< LOQ		mg/1g	0.000995		
Δ10-THC-Total per 1g	< LOQ		mg/1g	0.00199		
Δ8-THC per 1g	< LOQ		mg/1g	0.000995		
Δ9-THC per 1g	0.0150		mg/1g	0.000995		
delta-9-THCP per 1g	< LOQ		mg/1g	0.000995		
exo-THC per 1g	< LOQ		mg/1g	0.000995		
THC-A per 1g	< LOQ		mg/1g	0.000995		
THC-Total per 1g	0.0150		mg/1g	0.00187		
THCV per 1g	< LOQ		mg/1g	0.000995		
THCV-A per 1g	< LOQ		mg/1g	0.000995		



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Potency per 1g						
Analyte	Method: J AOAC 2015 V98-6 (mod) ^b	Result	Limits	Units mg/se	Batch: 2313009	Analyze: 11/20/23 10:14:00 P
THCV-Total per 1g		< LOQ		mg/1g		0.00187
Total Cannabinoids per 1g		0.0402		mg/1g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2312920	11/20/23 AOAC 991.14 (Petrifilm) ^p		
Total Coliforms	< LOQ		cfu/g	10	2312920	11/20/23 AOAC 991.14 (Petrifilm) ^p		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2312921	11/21/23 AOAC 2014.05 (RAPID) ^p		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2312921	11/21/23 AOAC 2014.05 (RAPID) ^p		

Solvents

Method: Residual Solvents by GC/MS ^b											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane	< LOQ	380	100	pass		2-Butanol	< LOQ	5000	200	pass	
2-Ethoxyethanol	< LOQ	160	30.0	pass		2-Methylbutane (Isopentane)	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass	
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200		
2,3-Dimethylbutane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0		
Acetone	< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass	
Benzene	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass	
Cyclohexane	< LOQ	3880	200	pass		Ethanol	392		200		
Ethyl acetate	< LOQ	5000	200	pass		Ethyl benzene	< LOQ		200		
Ethyl ether	< LOQ	5000	200	pass		Ethylene glycol	< LOQ	620	200	pass	
Ethylene oxide	< LOQ	50.0	20.0	pass		Hexanes (sum)	< LOQ	290	150	pass	
Isopropyl acetate	< LOQ	5000	200	pass		Isopropylbenzene (Cumene)	< LOQ	70.0	30.0	pass	
m,p-Xylene	< LOQ		200			Methanol	< LOQ	3000	200	pass	
Methylene chloride	< LOQ	600	60.0	pass		Methylpropane (Isobutane)	< LOQ		200		
n-Butane	< LOQ		200			n-Heptane	< LOQ	5000	200	pass	
n-Hexane	< LOQ		30.0			n-Pentane	< LOQ		200		
o-Xylene	< LOQ		200			Pentanes (sum)	< LOQ	5000	600	pass	
Propane	< LOQ	5000	200	pass		Tetrahydrofuran	< LOQ	720	100	pass	
Toluene	< LOQ	890	100	pass		Total Xylenes	< LOQ		400		
Total Xylenes and Ethyl benzene	< LOQ	2170	600	pass							


Pesticides **Method:** AOAC 2007.01 & EN 15662 (mod)^b **Units** mg/kg **Batch** 2313043 **Analyze** 11/22/23 02:37 PM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin [‡]	< LOQ	0.50	0.250	pass		Acephate [‡]	< LOQ	0.40	0.200	pass	
Acequinocyl [‡]	< LOQ	2.0	1.00	pass		Acetamiprid [‡]	< LOQ	0.20	0.100	pass	
Aldicarb [‡]	< LOQ	0.40	0.200	pass		Azoxystrobin [‡]	< LOQ	0.20	0.100	pass	
Bifenazate [‡]	< LOQ	0.20	0.100	pass		Bifenthrin [‡]	< LOQ	0.20	0.100	pass	
Boscalid [‡]	< LOQ	0.40	0.200	pass		Carbaryl [‡]	< LOQ	0.20	0.100	pass	
Carbofuran [‡]	< LOQ	0.20	0.100	pass		Chlorantraniliprole [‡]	< LOQ	0.20	0.100	pass	
Chlorfenapyr [‡]	< LOQ	1.0	0.500	pass		Chlorpyrifos [‡]	< LOQ	0.20	0.100	pass	
Clofentezine [‡]	< LOQ	0.20	0.100	pass		Cyfluthrin [‡]	< LOQ	1.0	0.500	pass	
Cypermethrin [‡]	< LOQ	1.0	0.500	pass		Daminozide [‡]	< LOQ	1.0	0.500	pass	
Diazinon [‡]	< LOQ	0.20	0.100	pass		Dichlorvos [‡]	< LOQ	1.0	0.500	pass	
Dimethoate [‡]	< LOQ	0.20	0.100	pass		Ethoprophos [‡]	< LOQ	0.20	0.100	pass	
Etofenprox [‡]	< LOQ	0.40	0.200	pass		Etoxazole [‡]	< LOQ	0.20	0.100	pass	
Fenoxycarb [‡]	< LOQ	0.20	0.100	pass		Fenpyroximate [‡]	< LOQ	0.40	0.200	pass	
Fipronil [‡]	< LOQ	0.40	0.200	pass		Flonicamid [‡]	< LOQ	1.0	0.400	pass	
Fludioxonil [‡]	< LOQ	0.40	0.200	pass		Hexythiazox [‡]	< LOQ	1.0	0.400	pass	
Imazalil [‡]	< LOQ	0.20	0.100	pass		Imidacloprid [‡]	< LOQ	0.40	0.200	pass	
Kresoxim-methyl [‡]	< LOQ	0.40	0.200	pass		Malathion [‡]	< LOQ	0.20	0.100	pass	
Metalaxyl [‡]	< LOQ	0.20	0.100	pass		Methiocarb [‡]	< LOQ	0.20	0.100	pass	
Methomyl [‡]	< LOQ	0.40	0.200	pass		MGK-264 [‡]	< LOQ	0.20	0.100	pass	
Myclobutanil [‡]	< LOQ	0.20	0.100	pass		Naled [‡]	< LOQ	0.50	0.250	pass	
Oxamyl [‡]	< LOQ	1.0	0.500	pass		Pacllobutrazole [‡]	< LOQ	0.40	0.200	pass	
Parathion-Methyl [‡]	< LOQ	0.20	0.100	pass		Permethrin [‡]	< LOQ	0.20	0.100	pass	
Phosmet [‡]	< LOQ	0.20	0.100	pass		Piperonyl butoxide [‡]	< LOQ	2.0	1.00	pass	
Prallethrin [‡]	< LOQ	0.20	0.100	pass		Propiconazole [‡]	< LOQ	0.40	0.200	pass	
Propoxur [‡]	< LOQ	0.20	0.100	pass		Pyrethrin I (total) [‡]	< LOQ	1.0	0.500	pass	
Pyridaben [‡]	< LOQ	0.20	0.100	pass		Spinosad [‡]	< LOQ	0.20	0.100	pass	
Spiromesifen [‡]	< LOQ	0.20	0.100	pass		Spirotetramat [‡]	< LOQ	0.20	0.100	pass	
Spiroxamine [‡]	< LOQ	0.40	0.200	pass		Tebuconazole [‡]	< LOQ	0.40	0.200	pass	
Thiacloprid [‡]	< LOQ	0.20	0.100	pass		Thiamethoxam [‡]	< LOQ	0.20	0.100	pass	
Trifloxystrobin [‡]	< LOQ	0.20	0.100	pass							

Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic [‡]	< LOQ	0.200	mg/kg	0.00396	2312986	11/20/23 AOAC 2013.06 (mod.) ^b	pass	
Cadmium [‡]	< LOQ	0.200	mg/kg	0.00396	2312986	11/20/23 AOAC 2013.06 (mod.) ^b	pass	
Lead [‡]	< LOQ	0.500	mg/kg	0.00396	2312986	11/20/23 AOAC 2013.06 (mod.) ^b	pass	
Mercury [‡]	< LOQ	0.100	mg/kg	0.00198	2312986	11/20/23 AOAC 2013.06 (mod.) ^b	pass	



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Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Ⓟ = ISO/IEC 17025:2017 accredited method.

Ⓜ = TNI accredited analyte.

Units of Measure

cfu/g = Colony forming units per gram

g = g

µg/g = Microgram per gram

mg/kg = Milligram per kilogram = parts per million (ppm)

mg/1g = Milligram per 1g

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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 Portland, OR 97230
 503-254-1794



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Received: 11/16/23 16:10

Revision: 4 Document ID: 7148
 Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2313009

Laboratory Control Sample										
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes	
CBDVA	2	0.0010	0.0010	%	96.7	80.0	- 120	Acceptable		
CBDV	2	0.0010	0.0010	%	102	80.0	- 120	Acceptable		
CBE	2	0.00110	0.00105	%	105	80.0	- 120	Acceptable		
CBDA	1	0.0010	0.0009	%	105	90.0	- 110	Acceptable		
CBGA	1	0.0010	0.0009	%	105	80.0	- 120	Acceptable		
CBG	1	0.00102	0.0010	%	102	80.0	- 120	Acceptable		
CBD	1	0.00100	0.0010	%	105	90.0	- 110	Acceptable		
THCV	2	0.0010	0.00101	%	97.9	80.0	- 120	Acceptable		
d8THCV	2	0.0009	0.0008	%	106	80.0	- 120	Acceptable		
THCVA	2	0.0009	0.0010	%	96.7	80.0	- 120	Acceptable		
CBN	1	0.00106	0.0010	%	107	80.0	- 120	Acceptable		
exo-THC	2	0.0009	0.0009	%	102	80.0	- 120	Acceptable		
d9THC	1	0.00102	0.0010	%	106	90.0	- 110	Acceptable		
d8THC	1	0.0009	0.0008	%	105	90.0	- 110	Acceptable		
9S-d10THC	1	0.00100	0.0010	%	102	80.0	- 120	Acceptable		
CBL	2	0.00105	0.00105	%	99.8	80.0	- 120	Acceptable		
9R-d10THC	1	0.0010	0.0009	%	106	80.0	- 120	Acceptable		
CBC	2	0.00106	0.00102	%	104	80.0	- 120	Acceptable		
THCA	1	0.0009	0.0009	%	104	90.0	- 110	Acceptable		
CBCA	2	0.0009	0.00101	%	93.1	80.0	- 120	Acceptable		
CBLA	2	0.00100	0.00101	%	99.4	80.0	- 120	Acceptable		
d9THCP	2	0.00101	0.0010	%	101	80.0	- 120	Acceptable		
CBT	2	0.00105	0.00101	%	104	80.0	- 120	Acceptable		

Method Blank						
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBDV	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBE	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBDA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBGA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBG	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBD	0.0001	0.0001	%	< 0.0001	Outlier	B1
THCV	<LOQ	0.0001	%	< 0.0001	Acceptable	
d8THCV	<LOQ	0.0001	%	< 0.0001	Acceptable	
THCVA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBN	<LOQ	0.0001	%	< 0.0001	Acceptable	
exo-THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
d9THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
d8THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
9S-d10THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBL	<LOQ	0.0001	%	< 0.0001	Acceptable	
9R-d10THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBC	<LOQ	0.0001	%	< 0.0001	Acceptable	
THCA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBCA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBLA	<LOQ	0.0001	%	< 0.0001	Acceptable	
d9THCP	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBT	<LOQ	0.0001	%	< 0.0001	Acceptable	

Abbreviations

- ND - None Detected at or above MRL
- RPD - Relative Percent Difference
- LOQ - Limit of Quantitation
- B1 - The sample concentration is greater than 5 times the blank concentration.

Units of Measure:

% - Percent



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Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2313009						
Sample Duplicate		Sample ID: 23-013600-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBDG	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBD	0.00305	0.00282	0.0001	%	7.70	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
d9THC	0.00159	0.00166	0.0001	%	4.38	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	

Abbreviations

ND - None Detected at or above MRL
 RPD - Relative Percent Difference
 LOQ - Limit of Quantitation

Units of Measure:

% - Percent



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Revision: 2 Document ID: 7087
Legacy ID: CFL-E33Effective:

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2313025					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		476	584	µg/g	81.5	60 - 120	
Isobutane	ND	< 200		533	767	µg/g	69.5	60 - 120	
Butane	ND	< 200		499	782	µg/g	63.8	60 - 120	
2,2-Dimethylpropane	ND	< 200		726	939	µg/g	77.3	60 - 120	
Methanol	ND	< 200		1820	1600	µg/g	113.8	60 - 120	
Ethylene Oxide	ND	< 30		39.3	57.1	µg/g	68.8	60 - 120	
2-Methylbutane	ND	< 200		1750	1600	µg/g	109.4	60 - 120	
Pentane	ND	< 200		1760	1600	µg/g	110.0	60 - 120	
Ethanol	ND	< 200		1720	1600	µg/g	107.5	70 - 130	
Ethyl Ether	ND	< 200		1700	1600	µg/g	106.3	60 - 120	
2,2-Dimethylbutane	ND	< 30		170	161	µg/g	105.6	60 - 120	
Acetone	ND	< 200		1740	1600	µg/g	108.8	60 - 120	
2-Propanol	ND	< 200		1720	1600	µg/g	107.5	60 - 120	
Ethyl Formate	ND	< 500		1150	1600	µg/g	71.9	70 - 130	
Acetonitrile	ND	< 100		530	488	µg/g	108.6	60 - 120	
Methyl Acetate	ND	< 500		1500	1610	µg/g	93.2	70 - 130	
2,3-Dimethylbutane	ND	< 30		172	163	µg/g	105.5	60 - 120	
Dichloromethane	ND	< 60		477	488	µg/g	97.7	60 - 120	
2-Methylpentane	ND	< 30		150	161	µg/g	93.2	60 - 120	
MTBE	ND	< 500		1540	1650	µg/g	93.3	70 - 130	
3-Methylpentane	ND	< 30		167	162	µg/g	103.1	60 - 120	
Hexane	ND	< 30		168	161	µg/g	104.3	60 - 120	
1-Propanol	ND	< 500		1700	1620	µg/g	104.9	70 - 130	
Methylethylketone	ND	< 500		1530	1610	µg/g	95.0	70 - 130	
Ethyl acetate	ND	< 200		1740	1610	µg/g	108.1	60 - 120	
2-Butanol	ND	< 200		1690	1610	µg/g	105.0	60 - 120	
Tetrahydrofuran	ND	< 100		499	483	µg/g	103.3	60 - 120	
Cyclohexane	ND	< 200		1660	1600	µg/g	103.8	60 - 120	
2-methyl-1-propanol	ND	< 500		1350	1600	µg/g	84.4	70 - 130	
Benzene	ND	< 1		5.11	4.99	µg/g	102.4	60 - 120	
Isopropyl Acetate	ND	< 200		1770	1600	µg/g	110.6	60 - 120	
Heptane	ND	< 200		1750	1600	µg/g	109.4	60 - 120	
1-Butanol	ND	< 500		1460	1610	µg/g	90.7	70 - 130	
Propyl Acetate	ND	< 500		1590	1610	µg/g	98.8	70 - 130	
1,4-Dioxane	ND	< 100		470	480	µg/g	97.9	60 - 120	
2-Ethoxyethanol	ND	< 30		134	161	µg/g	83.2	60 - 120	
Methylisobutylketone	ND	< 500		1620	1610	µg/g	100.6	70 - 130	
3-Methyl-1-butanol	ND	< 500		1520	1610	µg/g	94.4	70 - 130	
Ethylene Glycol	ND	< 200		197	481	µg/g	41.0	60 - 120	Q6
Toluene	ND	< 100		487	483	µg/g	100.8	60 - 120	
Isobutyl Acetate	ND	< 500		1600	1610	µg/g	99.4	70 - 130	
1-Pentanol	ND	< 500		1570	1610	µg/g	97.5	70 - 130	
Butyl Acetate	ND	< 500		1560	1600	µg/g	97.5	70 - 130	
Ethylbenzene	ND	< 200		966	962	µg/g	100.4	60 - 120	
m,p-Xylene	ND	< 200		981	972	µg/g	100.9	60 - 120	
o-Xylene	ND	< 200		942	965	µg/g	97.6	60 - 120	
Cumene	ND	< 30		165	169	µg/g	97.6	60 - 120	
Anisole	ND	< 500		1320	1600	µg/g	82.5	70 - 130	
DMSO	ND	< 500		1070	1600	µg/g	66.9	70 - 130	Q6
1,2-dimethoxyethane	ND	< 50		151	163	µg/g	92.6	70 - 130	
Triethylamine	ND	< 500		1190	1600	µg/g	74.4	70 - 130	
N,N-dimethylformamide	ND	< 150		400	482	µg/g	83.0	70 - 130	
N,N-dimethylacetamide	ND	< 150		478	483	µg/g	99.0	70 - 130	
Pyridine	ND	< 50		129	161	µg/g	80.1	70 - 130	
Sulfolane	ND	< 50		96.6	163	µg/g	59.3	70 - 130	Q6
1,2-Dichloroethane	ND	< 1		1.13	1	µg/g	113.0	70 - 130	
Chloroform	ND	< 1		0.994	1	µg/g	99.4	70 - 130	
Trichloroethylene	ND	< 1		0.867	1	µg/g	86.7	70 - 130	
1,1-Dichloroethane	ND	< 1		1.08	1	µg/g	108.0	70 - 130	



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QC - Sample Duplicate		Sample ID: 23-013428-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
Propane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Isobutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Butane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylpropane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-Methylbutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Pentane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Formate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Methyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
2,3-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	60	µg/g	0.0	< 20	Acceptable	
2-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
MTBE	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
1-Propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Methyl ethyl ketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethyl acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Butanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-methyl-1-propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Heptane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
1-Butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Propyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Methylisobutylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methyl-1-butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Isobutyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1-Pentanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Butyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylbenzene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
m,p-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
o-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Cumene	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Anisole	ND	ND	500	µg/g	0.0	< 20	Acceptable	
DMSO	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,2-dimethoxyethane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
Triethylamine	ND	ND	500	µg/g	0.0	< 20	Acceptable	
N,N-dimethylformamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
N,N-dimethylacetamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
Pyridine	ND	ND	50	µg/g	0.0	< 20	Acceptable	
Sulfolane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
1,2-Dichloroethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Chloroform	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Trichloroethylene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
1,1-Dichloroethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	

Abbreviations

ND - None Detected at or above MRL
 RPD - Relative Percent Difference
 LOQ - Limit of Quantitation
 Q6 - Quality control outside QC limits. Data acceptable based on remaining QC.

Units of Measure:

µg/g- Microgram per gram or ppm



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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg			Batch ID: 2313043			
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		0.975	1.000	97.5	50.0	150
Acephate	0.140	< 0.200		0.595	0.800	74.4	60.0	120
Acequinocyl	0.000	< 1.000		3.449	4.000	86.2	40.0	160
Acetamiprid	0.000	< 0.100		0.394	0.400	98.4	60.0	120
Aldicarb	0.000	< 0.200		0.761	0.800	95.1	60.0	120
Azoxystrobin	0.005	< 0.100		0.387	0.400	96.8	60.0	120
Bifenazate	0.000	< 0.100		0.382	0.400	95.4	60.0	120
Bifenthrin	0.000	< 0.100		0.366	0.400	91.4	50.0	150
Boscalid	0.000	< 0.200		0.666	0.800	83.3	60.0	120
Carbaryl	0.000	< 0.100		0.384	0.400	95.9	60.0	120
Carbofuran	0.000	< 0.100		0.385	0.400	96.2	60.0	120
Chlorantraniliprole	0.000	< 0.100		0.406	0.400	101.6	60.0	120
Chlorfenapyr	0.000	< 0.500		1.879	2.000	94.0	60.0	120
Chlorpyrifos	0.000	< 0.100		0.362	0.400	90.6	60.0	120
Clofentazine	0.000	< 0.100		0.200	0.400	50.0	60.0	120
Cyfluthrin	0.000	< 0.500		1.677	2.000	83.8	50.0	150
Cypermethrin	0.000	< 0.500		1.838	2.000	91.9	50.0	150
Daminozide	0.002	< 0.500		0.700	2.000	35.0	60.0	120
Diazinon	0.000	< 0.100		0.364	0.400	91.1	60.0	120
Dichlorvos	0.000	< 0.500		1.743	2.000	87.2	60.0	120
Dimethoate	0.000	< 0.100		0.369	0.400	92.2	60.0	120
Ethoprophos	0.000	< 0.100		0.370	0.400	92.6	60.0	120
Etofenprox	0.000	< 0.200		0.739	0.800	92.4	50.0	150
Etoxazole	0.003	< 0.100		0.349	0.400	87.2	60.0	120
Fenoxycarb	0.000	< 0.100		0.385	0.400	96.2	60.0	120
Fenpyroximate	0.001	< 0.200		0.728	0.800	91.0	60.0	120
Fipronil	0.000	< 0.200		0.763	0.800	95.4	60.0	120
Fonicamid	0.000	< 0.250		0.840	1.000	84.0	60.0	120
Fludioxonil	0.000	< 0.200		0.786	0.800	98.3	50.0	150
Hexythiazox	0.000	< 0.250		0.945	1.000	94.5	60.0	120
Imazalil	0.000	< 0.100		0.384	0.400	96.1	60.0	120
Imidacloprid	0.000	< 0.200		0.737	0.800	92.1	60.0	120
Kresoxim-methyl	0.000	< 0.200		0.731	0.800	91.3	60.0	120
Malathion	0.009	< 0.100		0.355	0.400	88.7	60.0	120
Metaxalyl	0.000	< 0.100		0.366	0.400	91.5	60.0	120
Methiocarb	0.000	< 0.100		0.366	0.400	91.4	60.0	120
Methomyl	0.000	< 0.200		0.637	0.800	79.7	60.0	120
MGK-264	0.000	< 0.100		0.363	0.400	90.7	50.0	150
Myclobutanil	0.006	< 0.100		0.407	0.400	101.8	60.0	120
Naled	0.000	< 0.250		0.917	1.000	91.7	50.0	150
Oxamyl	0.000	< 0.500		1.778	2.000	88.9	60.0	120
Paclbutrazole	0.000	< 0.200		0.756	0.800	94.6	60.0	120
Parathion-Methyl	0.000	< 0.100		0.362	0.400	90.5	50.0	150
Permethrin	0.048	< 0.100		0.295	0.400	73.7	50.0	150
Phosmet	0.000	< 0.100		0.374	0.400	93.5	50.0	150
Piperonyl butoxide	0.000	< 0.500		1.860	2.000	93.0	60.0	120
Prallethrin	0.011	< 0.100		0.386	0.400	96.5	60.0	120
Propiconazole	0.030	< 0.200		0.760	0.800	95.0	60.0	120
Propoxur	0.000	< 0.100		0.373	0.400	93.2	60.0	120
Pyrethrin (Summe)	0.005	< 0.100		0.442	0.488	90.5	60.0	120
Pyridaben	0.000	< 0.100		0.370	0.400	92.4	50.0	150
Spinosad	0.000	< 0.100		0.369	0.388	95.0	50.0	150
Spiromesifen	0.000	< 0.100		0.370	0.400	92.4	60.0	120
Spirotetramat	0.000	< 0.100		0.369	0.400	92.3	60.0	120
Spiroxamine	0.000	< 0.200		0.762	0.800	95.2	60.0	120
Tebuconazole	0.011	< 0.200		0.711	0.800	88.9	60.0	120
Thiacloprid	0.000	< 0.100		0.380	0.400	95.0	60.0	120
Thiamethoxam	0.000	< 0.100		0.319	0.400	79.8	60.0	120
Trifloxystrobin	0.000	< 0.100		0.385	0.400	96.1	60.0	120

Q7
Q7



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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg				Batch ID: 2313043				
Matrix Spike/Matrix Spike Duplicate Recoveries		Sample ID: 23-013600-0007								
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	1.009	0.992	1.000	1.7%	< 30	100.9%	99.2%	50 - 150	
Acephate	0.104	0.701	0.727	0.800	4.3%	< 30	74.5%	77.8%	50 - 150	
Acetaminophen	0.000	3.535	3.763	4.000	6.3%	< 30	88.4%	94.1%	50 - 150	
Acetamiprid	0.000	0.402	0.410	0.400	2.1%	< 30	100.4%	102.6%	50 - 150	
Aldicarb	0.000	0.723	0.738	0.800	2.1%	< 30	90.4%	92.3%	50 - 150	
Azoxystrobin	0.005	0.358	0.375	0.400	4.7%	< 30	88.3%	92.5%	50 - 150	
Bifenazate	0.000	0.380	0.399	0.400	5.1%	< 30	94.9%	99.9%	50 - 150	
Bifenthrin	0.000	0.345	0.364	0.400	5.4%	< 30	86.3%	91.1%	50 - 150	
Boscalid	0.000	0.694	0.654	0.800	6.0%	< 30	86.8%	81.7%	50 - 150	
Carbaryl	0.000	0.369	0.376	0.400	1.8%	< 30	92.3%	94.0%	50 - 150	
Carbofuran	0.000	0.378	0.379	0.400	0.2%	< 30	94.5%	94.7%	50 - 150	
Chlorantraniliprole	0.000	0.362	0.400	0.400	10.0%	< 30	90.6%	100.1%	50 - 150	
Chlorfenapyr	0.000	1.763	1.711	2.000	3.0%	< 30	88.2%	85.5%	50 - 150	
Chlorpyrifos	0.000	0.335	0.347	0.400	3.4%	< 30	83.8%	86.7%	50 - 150	
Clofentezine	0.000	0.122	0.131	0.400	7.3%	< 30	30.5%	32.8%	50 - 150	Q
Cyfluthrin	0.000	1.732	1.931	2.000	10.9%	< 30	86.6%	96.6%	30 - 150	
Cypermethrin	0.000	1.736	1.780	2.000	2.5%	< 30	86.8%	89.0%	50 - 150	
Daminozide	0.001	0.688	0.683	2.000	0.9%	< 30	34.4%	34.1%	30 - 150	
Diazinon	0.000	0.338	0.347	0.400	2.6%	< 30	84.5%	86.8%	50 - 150	
Dichlorvos	0.102	1.771	1.704	2.000	4.1%	< 30	83.5%	80.1%	50 - 150	
Dimethoate	0.000	0.361	0.380	0.400	5.0%	< 30	90.3%	94.9%	50 - 150	
Ethoprophos	0.000	0.353	0.372	0.400	5.1%	< 30	88.3%	92.9%	50 - 150	
Etofenprox	0.000	0.742	0.780	0.800	4.9%	< 30	92.8%	97.5%	50 - 150	
Etoxazole	0.003	0.332	0.348	0.400	4.9%	< 30	82.2%	86.3%	50 - 150	
Fenoxycarb	0.000	0.348	0.351	0.400	0.8%	< 30	87.1%	87.8%	50 - 150	
Fenpyroximate	0.001	0.731	0.729	0.800	0.3%	< 30	91.2%	90.9%	50 - 150	
Fipronil	0.000	0.764	0.752	0.800	1.6%	< 30	95.5%	94.0%	50 - 150	
Flonicamid	0.000	0.966	0.910	1.000	6.0%	< 30	96.6%	91.0%	50 - 150	
Fludioxonil	0.000	0.749	0.745	0.800	0.6%	< 30	93.6%	93.1%	50 - 150	
Hexythiazox	0.000	1.012	1.059	1.000	4.5%	< 30	101.2%	105.9%	50 - 150	
Imazalil	0.000	0.376	0.392	0.400	4.0%	< 30	94.0%	97.9%	50 - 150	
Imidacloprid	0.000	0.687	0.705	0.800	2.5%	< 30	85.9%	88.1%	50 - 150	
Kresoxim-methyl	0.000	0.718	0.710	0.800	1.0%	< 30	89.7%	88.8%	50 - 150	
Malathion	0.000	0.338	0.356	0.400	5.2%	< 30	84.5%	89.0%	50 - 150	
Metaxalyl	0.000	0.357	0.357	0.400	0.2%	< 30	89.2%	89.3%	50 - 150	
Methiocarb	0.000	0.363	0.384	0.400	5.8%	< 30	90.6%	96.1%	50 - 150	
Methomyl	0.000	0.693	0.719	0.800	3.7%	< 30	86.6%	89.9%	50 - 150	
MGK-264	0.000	0.357	0.353	0.400	1.2%	< 30	89.2%	88.1%	50 - 150	
Myclobutanil	0.000	0.363	0.401	0.400	9.9%	< 30	90.8%	100.2%	50 - 150	
Naled	0.000	0.883	0.928	1.000	5.0%	< 30	88.3%	92.8%	50 - 150	
Oxamyl	0.000	1.869	1.741	2.000	7.1%	< 30	93.4%	87.0%	50 - 150	
Pacllobutrazole	0.000	0.719	0.725	0.800	0.9%	< 30	89.9%	90.6%	50 - 150	
Parathion-Methyl	0.000	0.331	0.365	0.400	10.0%	< 30	82.7%	91.3%	30 - 150	
Permethrin	0.000	0.384	0.403	0.400	4.7%	< 30	96.1%	100.7%	50 - 150	
Phosmet	0.000	0.366	0.386	0.400	5.3%	< 30	91.4%	96.4%	50 - 150	
Piperonyl butoxide	0.000	1.673	1.729	2.000	3.3%	< 30	83.7%	86.4%	50 - 150	
Prallethrin	0.000	0.367	0.364	0.400	0.8%	< 30	91.7%	91.0%	50 - 150	
Propiconazole	0.026	0.753	0.763	0.800	1.4%	< 30	90.8%	92.1%	50 - 150	
Propoxur	0.000	0.365	0.377	0.400	3.2%	< 30	91.3%	94.4%	50 - 150	
Pyrethrin (Summe)	0.003	0.427	0.437	0.488	2.4%	< 30	86.8%	88.9%	50 - 150	
Pyridaben	0.000	0.411	0.430	0.400	4.5%	< 30	102.7%	107.4%	50 - 150	
Spinosad	0.000	0.337	0.373	0.388	10.0%	< 30	86.9%	96.0%	50 - 150	
Spiromesifen	0.000	0.359	0.374	0.400	4.0%	< 30	89.8%	93.5%	50 - 150	
Spirotetramat	0.000	0.366	0.369	0.400	0.8%	< 30	91.4%	92.2%	50 - 150	
Spiroxamine	0.000	0.731	0.764	0.800	4.4%	< 30	91.4%	95.5%	50 - 150	
Tebuconazole	0.010	0.705	0.731	0.800	3.7%	< 30	86.9%	90.2%	50 - 150	
Thiacloprid	0.000	0.359	0.370	0.400	3.1%	< 30	89.7%	92.5%	50 - 150	
Thiamethoxam	0.000	0.352	0.353	0.400	0.3%	< 30	88.0%	88.2%	50 - 150	
Trifloxystrobin	0.000	0.348	0.363	0.400	4.1%	< 30	87.1%	90.8%	50 - 150	



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Received: 11/16/23 16:10





Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitation level raised due to matrix interference.
B	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.